

Message

**From:** Sherwood, Todd [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=F6A5D8DECF654CE99B5DE0923CCFF361-SHERWOOD, TODD]  
**Sent:** 6/24/2013 1:37:02 PM  
**To:** GHG Technology Info [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0e445e0b791149cd83114d227b6a3375-GHG Technology Info]  
**Subject:** FW: Small Block Hugely Capable

Several good articles here. The iBooster article talks about new brake system that doesn't need engine vacuum (since there's not as much with newer engines). The small block article talks about GM's approach on trucks which is the exact opposite of Ford's approach. There's also a story on the Cruze diesel.

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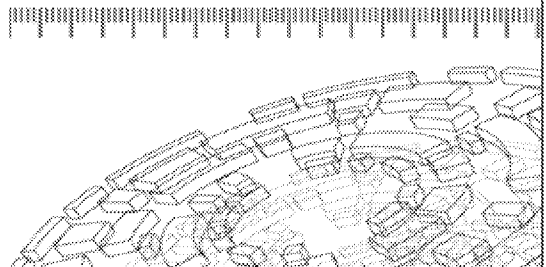
**From:** WardsAuto Engine & Technology Update [mailto:news@news.wardsauto.com]  
**Sent:** Monday, June 24, 2013 4:00 AM  
**To:** Sherwood, Todd  
**Subject:** Small Block Hugely Capable

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# WARDSAUTO

## Engine & Technology UPDATE

A biweekly report of technical news and analysis from  
WardsAuto.com



June 24, 2013

### Top Story

#### Bosch Rolling Out Vacuum-Free iBooster



Bosch's iBooster operates electromechanically, does not require vacuum from the engine and recovers almost all the energy lost in typical

braking. It uses electrical current only during braking.

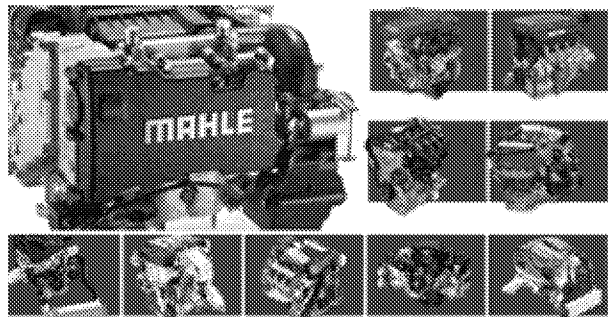
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### Engines

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# 2013

Engine Data Chart  
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## Toyota Investing \$200 Million for V-6 Engines

The auto maker already is in the process of an \$80 million engine assembly expansion in Alabama, set for an early 2014 completion.

[FULL ARTICLE](#)

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### Engineering

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## GM Vehicle-Platform Consolidation Accelerating, Product Chief Says

Mary Bara tells Wall Street analysts GM expects to cut the architectures underpinning its vehicles to 17 in 2018 from 30 in 2010. The plan would move 96% of GM's forecasted global production volume to core platforms.

[FULL ARTICLE](#)

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## Ford Takes Human Element Out of Vehicle-Durability Test Drives

The robotic system uses an electric motor attached through a ring gear to the steering wheel to direct the vehicle, while a series of low-cost linear actuators work with belt cranks that push the pedals similar to a human driver.

[FULL ARTICLE](#)

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### Chassis

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## Ford Regenerative Brakes Rack Up Big Energy Savings

Ford introduced early versions of its regenerative brake system on the Ford Ranger and Ecostar electric vehicles in the 1990s.

[FULL ARTICLE](#)

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### Research

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## U.K. Auto Industry Rewarding Groundbreaking Ideas

Society of Motor Manufacturers and Traders interim CEO Mike Baunton says the award is aimed at designers and engineers who are working on the technology of tomorrow.

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## Ford, Schaeffler Make Progress on eWheelDrive Project

The technology, being tested in a Fiesta B-car, could lead to the development of a 4-person vehicle that only occupies the space of a 2-person model.

FULL ARTICLE

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## Future Products

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## Fiat Releases Pictures of Fiat 500L Living 7-Seater

The new model, manufactured at Fiat's plant in Serbia, will have its world preview in July on the sixth anniversary of the 500 family.

FULL ARTICLE

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## New Pickups, Cadillac Brand to Fuel GM Product Offensive

"Going forward, our competitors are going to be on the south end of a northbound mule," Akerson tells Wall Street analysts during a business update and product showcase outside Detroit.

FULL ARTICLE

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## Fiat Doblo-Based Small Van Coming to U.S. as Ram

The new van joins the larger ProMaster in Ram's ongoing effort to court commercial customers and broaden its lineup.

FULL ARTICLE

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## Acura TSX Wagon on Bubble

A top Acura executive won't say if the wagon is a goner, but ominously notes every model needs a good business case and "when there's not enough demand (for a model), we just won't do it."

FULL ARTICLE

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## New Vehicles

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### Test Drive: Small Block Hugely Capable

The GMC Sierra pickup features three all-new small-block engines. The 5.3L V-8 tows with steely confidence, and the 4.3L V-6 is stout, too.

[FULL ARTICLE](#)

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### Gallery: '14 GMC Sierra

GMC stages a "Trailing Academy" on a Southern California airstrip to demonstrate the capabilities of the new Sierra pickup and its 5.3L small-block V-8, hitched to a 5,500-lb. Airstream camper.

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### Test Drive: Acura Drops Pounds, Price for '14 MDX

"We did an all-out attack on weight," says project leader Jim Keller.

[FULL ARTICLE](#)

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### Gallery: '14 Acura MDX

The centerpiece of the '14 MDX is an all-new purpose-built body and chassis.

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### Chevy Cruze Diesel Attracting Buyers With Quiet Engine, Extended Range

Engineers can't make the Cruze diesel totally quiet. That will take another evolution. But someday the totally noiseless diesel will come, Gary Altman says, noting it will take changes in combustion technology as well as engine materials.

[FULL ARTICLE](#)

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## Materials

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### Canadian Project Promotes Aluminum Use in Vehicles

"Canada is a global leader in producing aluminum, and now has the opportunity to lead the world in the transformation of aluminum into parts for lighter-weight vehicles," says Michel Dumoulin of the National Research Council.

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## Technology Roundup

A roundup of automotive technology news.

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